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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/514,416	11/15/2004	Per Halvarsson	43315-208194	4363	
26694 VENABLE LI	7590 02/23/2007 D		EXAMINER		
P.O. BOX 34385			LEJA, RONALD W		
WASHINGTO	N, DC 20043-9998		ART UNIT PAPER NUMBER		
		•	2836		
SHORTENED STATUTO	RY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE		
3 MC	ONTHS	02/23/2007	РАГ	ER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	Application No.	Applicant(s)				
	10/514,416	HALVARSSON ET AL.				
Office Action Summary	Examiner	Art Unit				
	Ronald W. Leja	2836				
The MAILING DATE of this communication app	1	orrespondence address				
Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.1: after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period v - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from . cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).	S ,			
Status						
1)⊠ Responsive to communication(s) filed on 14 Fe	ehruani 2006					
	action is non-final.					
3) Since this application is in condition for allowar		secution as to the merits is				
closed in accordance with the practice under E						
Disposition of Claims						
4)⊠ Claim(s) <u>1-21</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdraw						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) 1-4 and 7-21 is/are rejected.						
7)⊠ Claim(s) <u>5 and 6</u> is/are objected to.						
8) Claim(s) are subject to restriction and/o	r election requirement.					
Application Papers						
9) The specification is objected to by the Examine	er.					
10)⊠ The drawing(s) filed on 15 November 2004 is/a		ed to by the Examiner.				
Applicant may not request that any objection to the	· · · · · · · · · · · · · · · · · · ·	-				
Replacement drawing sheet(s) including the correct	ion is required if the drawing(s) is obj	ected to. See 37 CFR 1.121(d).				
11) ☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12)⊠ Acknowledgment is made of a claim for foreign a)⊠ All b)□ Some * c)□ None of:	priority under 35 U.S.C. § 119(a)	-(d) or (f).				
1. Certified copies of the priority documents	s have been received.					
	<u> </u>					
3 🛛 Copies of the certified copies of the prior	rity documents have been receive	ed in this National Stage				
application from the International Bureau	ı (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list	of the certified copies not receive	d.				
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3)	Paper No(s)/Mail Da 5) Notice of Informal P					
Paper No(s)/Mail Date <u>11/15/2004</u> .	6) Other:					

Claims 12-16 and 18 are objected to because of the following informalities:

There is a lack of antecedent basis for "each enclosure" in Claim 12. The language in

Claim 13 appears to be awkward. There is a lack of antecedent basis for "the line" in

Claims 14-16. The elements recited in Claim 18 appear to have already been recited

in Claim 17. Appropriate correction is required.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 1-4 and 7-21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Paulsson (5,325,259).

Paulsson discloses a protective device for a series capacitor and quickly closes the circuit via (BR) (for Claims 19-21). The device comprises annular (for Claim 8) main spark gap electrodes (11, 12), which become triggered via an auxiliary spark gap having guide rails (21, 22). The guide rails are reasonably considered to be

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"substantially parallel" (for Claim 2) and are longer than the width of the gap. One rail (21) is at the same potential as one electrode (11) of the main spark gap (for Claim 9). There is a mechanical contact device (BR) in parallel with the main spark gap (for Claim 10). Paulsson does not appear to disclose use of hermetic enclosures or gaseous medium. However, it would have been obvious to use hermetic enclosures to prevent moisture and/or contaminents from the operating environment from invading and contaminating the spark gaps, and thus, leading to improper overall performance and lower product longevity. The gaseous medium helps to maintain a desired spark gap breakdown threshold, leading to anticipated and reproducible results.

Claims 5 and 6 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The following is a Statement of Reasons for the Indication of Allowable Subject Matter: There does not appear to be strong motivation for modifying the device of Paulsson so as to include a shielding device between the guide rails and the main spark gap.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ronald W. Leja whose telephone number is (571)272-2053. The examiner can normally be reached on Monday thru Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Brian Sircus can be reached on (571)272-2800. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Ronald W Leja 4/1 Primary Examiner Art Unit 2836

rwl

February 19, 2007